

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An infusion set comprising:

a generally round base having upper and lower sides, an outer edge, a base cannula extending downwardly from the lower side, a retaining rim disposed at the outer edge, and a port extending upwardly from the upper side, the port being in fluid communication with the base cannula, and the port comprising a septum of a different material from the port, positioned above the retaining rim, and adapted to seal said port from fluid communication therethrough;

an adhesive layer mounted to the lower side of the base;

an introducer cap adapted to be pressed against and ~~generally cover~~ substantially all of the upper side of the base and to be removably coupled attached to the base at the outer radial periphery of the retaining rim, the introducer cap comprising upper and lower sides, and a needle extending downwardly from the lower side, the needle being adapted to extend through the septum on the upper side of the base and through the base cannula on the lower side of the base, whereby the attached base and introducer cap are adapted to be pressed against a patient's skin such that the introducer needle pierces the skin and the adhesive layer on the lower side of the base contacts the skin; and

an infusion cap comprising an upper side and a lower side, the infusion cap being adapted to be pressed against and generally cover the upper side of the base and to be removably attached to the base at the retaining rim after disengagement of the introducer cap from the base, the infusion cap being adapted to rotate with respect to the base while engaged, the infusion cap comprising an infusion cannula extending downwardly from the lower side of the infusion cap, and an elongate flexible lumen in fluid communication with the infusion cannula, the infusion cannula being adapted to extend through the septum on the upper side of the base upon engagement of the infusion cap and the base to place the flexible lumen and the infusion cap in fluid communication with the base cannula.

2. (Original) The infusion set of Claim 1, wherein the introducer cap includes at least one generally flat surface to facilitate grasping the cap.

3. (Original) The infusion set of Claim 2, wherein the introducer cap includes at least two generally flat surfaces to facilitate pinching the cap to change its shape to allow the cap to be removably engaged with the base.

4. (Original) The infusion set of Claim 3, wherein the base includes a funnel-shaped portion located between the port and the cannula.

5. (Original) The infusion set of Claim 4, wherein the funnel-shaped portion is located between the septum and the cannula.

6. (Currently Amended) The infusion set of Claim 1, wherein the ~~introduction~~ introducer cap and the infusion cap both include a substantially cylindrical portion adapted to surround the port on the base when engaged therewith to help secure the caps to the base.

7. (Currently Amended) The infusion set of Claim 1, wherein the infusion cap has a low-profile substantially dome-shaped upper side[[:]].

8. (Currently Amended) An infusion set comprising:

a generally circular base having upper and lower sides, an outer edge, a base cannula extending downwardly from the lower side, a port extending upwardly from the upper side, and ~~a retaining rim disposed at the outer edge~~, the port being in fluid communication with the base cannula, and the port comprising a septum at or near an upper side thereof ~~and positioned above the retaining rim~~, the septum of a different material from the port and adapted to seal the port from fluid communication therethrough;

a generally dome-shaped introducer cap adapted to ~~generally cover~~ substantially all of and to removably couple engage with the upper side of the base, the introducer cap comprising upper and lower sides, and a needle extending downwardly from the lower side, ~~the introducer cap adapted to be deformed such that at least a portion of the introducer cap may be passed over the retaining rim on the base and then returned to its original shape to secure the introducer cap to the base~~, the needle being adapted to extend through the septum on the upper side of the base and through the base cannula on the lower side of the base, whereby the engaged base and introducer cap are adapted to be pressed against a patient's skin such that the introducer needle pierces the skin and the base is in close proximity to the skin; and

a low-profile, dome-shaped infusion cap comprising an upper side and a lower side, the infusion cap being adapted to generally cover and to removably engage with the upper side of the base after disengagement of the introducer cap from the base, the infusion cap being adapted to rotate with respect to the base while engaged, the infusion cap comprising an infusion cannula extending downwardly from the lower side of the infusion cap, and an elongate flexible lumen in fluid communication with the infusion cannula, the infusion cannula being adapted to extend through the septum on the upper side of the base upon engagement of the infusion cap and the base to place the flexible lumen and the infusion cap in fluid communication with the base cannula.

9. (Original) The infusion set of Claim 8, wherein the introducer cap includes at least one generally flat surface to facilitate grasping the cap.

10. (Original) The infusion set of Claim 9, wherein the introducer cap includes at least two generally flat surfaces to facilitate pinching the cap to change its shape to allow the cap to be removably engaged with the base.

11. (Original) The infusion set of Claim 10, wherein the base includes a funnel-shaped portion located between the port and the cannula.

12. (Original) The infusion set of Claim 11, wherein the funnel-shaped portion is located between the septum and the cannula.

13. (Currently Amended) The infusion set of Claim 8, wherein the ~~introduction~~ introducer cap and the infusion cap both include a substantially cylindrical portion adapted to surround the port on the base when engaged therewith to help secure the caps to the base.

14. (New) The infusion set of Claim 1, wherein the septum comprises a slit.

15. (New) The infusion set of Claim 1, wherein the adhesive layer extends beyond the outer edge of the base.

16. (New) The infusion set of Claim 1, wherein substantially cylindrical portion of the infusion cap extends downwardly from the lower side beyond the infusion cannula.

17. (New) The infusion set of Claim 8, wherein the septum comprises a slit.

18. (New) The infusion set of Claim 8, further comprising an adhesive layer mounted to the lower side of the base.

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19. (New) The infusion set of Claim 18, wherein the adhesive layer extends beyond the outer edge of the base.

20. (New) The infusion set of Claim 8, wherein substantially cylindrical portion of the infusion cap extends downwardly from the lower side beyond the infusion cannula.

21. (New) The infusion set of Claim 1, wherein the infusion cap covers substantially all of the upper surface of the base when coupled to the base.

22. (New) The infusion set of Claim 8, wherein the infusion cap covers substantially all of the upper surface of the base when coupled to the base.

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SUMMARY OF INTERVIEW

On January 25, 2007, the Applicant's counsel conducted an interview with the Examiner of this application. Applicant's counsel explained how some of the devices in the specification work and described some of the associated advantages of these devices. Applicant's counsel also pointed out some of the differences between the claimed inventions and the cited prior art references, including the claimed configuration of the introducer cap. The Examiner and Applicant's counsel discussed some general approaches to claim language that would further distinguish the claimed inventions from the cited prior art. The amendments in this response are of the type discussed during the interview.